

FORM PTO-1390 (REV. 11-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER MICROM6
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/049350
INTERNATIONAL APPLICATION NO. PCT/FR00/02206	INTERNATIONAL FILING DATE 1 August 2000	PRIORITY DATE CLAIMED 4 August 1999	
TITLE OF INVENTION CANAL FILLING METHOD AND DEVICE FOR PROVIDING THE FILLING PRODUCT			
APPLICANT(S) FOR DO/EO/US BADOZ, Jean-Marie			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 			
Items 11 to 20 below concern document(s) or information included:			
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A change of power of attorney and/or address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Drawings (1 sheet) Abstract Small Entity Statement Express Mail Transmittal Postcard Receipt 			

U.S. APPLICATION NO. (if known, see 37 CFR 1.51)

10/049350

INTERNATIONAL APPLICATION NO
PCT/FR00/02206

ATTORNEY'S DOCKET NUMBER

MICROM6

21. ☒ The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):

Neither international preliminary examination fee (37 CFR 1.482)
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO
and International Search Report not prepared by the EPO or JPO.....

International preliminary examination fee (37 CFR 1.482) not paid to
USPTO but International Search Report prepared by the EPO or JPO

International preliminary examination fee (37 CFR 1.482) not paid to USPTO
but international search fee (37 CFR 1.445(a)(2)) paid to USPTO

International preliminary examination fee (37 CFR 1.482) paid to USPTO
but all claims did not satisfy provisions of PCT Article 33(1)-(4)

International preliminary examination fee (37 CFR 1.482) paid to USPTO
and all claims satisfied provisions of PCT Article 33(1)-(4)

ENTER APPROPRIATE BASIC FEE AMOUNT =

CALCULATIONS PTO USE ONLY

\$ 890.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30
months from the earliest claimed priority date (37 CFR 1.492(e)).

\$

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	9 - 20 =	0	x \$18.00
Independent claims	2 - 3 =	0	x \$80.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00
TOTAL OF ABOVE CALCULATIONS =			\$ 890.00

\$

\$

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☒ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above
are reduced by 1/2.

\$

+

445.00

SUBTOTAL =

\$

445.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30
months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

TOTAL NATIONAL FEE =

\$

445.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

\$

TOTAL FEES ENCLOSED =

\$

445.00

Amount to be
refunded:

\$

charged:

\$

a. ☒ A check in the amount of \$ 445.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
overpayment to Deposit Account No. 03-2405. A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card
information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR
1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

COHEN, Gary M., Esq.

NAME

28,834

REGISTRATION NUMBER

DATE OF DEPOSIT: 30 January 2002


EXPRESS MAIL MAILING LABEL NO.: ET995221137US

REFERENCE: MICROM6
APPLICANT: BADOZ, Jean-Marie
TITLE: CANAL FILLING METHOD AND DEVICE
FOR PROVIDING THE FILLING PRODUCT

The following are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and addressed to: Box PCT, Commissioner for Patents, Washington, D.C. 20231:

1. Transmittal Letter (in duplicate)
2. English Translation of
 - a) Request Form (3 pages)
 - b) Specification and Claims (9 pages)
3. Drawings (1 sheet)
4. Abstract
5. Signed Declaration
6. Preliminary Amendment
7. Small Entity Statement
8. Check (\$ 445.00)
9. Postcard Receipt

It is respectfully requested that these items be accorded a filing date corresponding to the above-indicated date of deposit under 37 C.F.R. §1.10.



COHEN, Gary M.
Reg. No. 28,834

EXPRESS MAIL NO.: ET995221137US

PATENT
microm6.d01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :
BADOZ, Jean-Marie :
International Application :
No. PCT/FR00/02206 :
International Filing :
Date: 1 August 2000 :
For a Patent for a :
CANAL FILLING METHOD AND DEVICE
FOR PROVIDING THE FILLING PRODUCT : 30 January 2002

PRELIMINARY AMENDMENT

Box PCT
Commissioner for Patents
Washington, D.C. 20231

Sir:

This Preliminary Amendment accompanies a Transmittal Letter entering the above-identified PCT application into its national phase for the United States. Prior to examination, please amend the claims as follows.

IN THE CLAIMS

Please amend the following claims:

4. (Amended) The device as claimed in claim 2, characterized in that the cartridge (5') is arranged in a removable pot (13).

7. (Amended) The device as claimed in claim 4, characterized in that the insulated surface (17) forms a lid on the pot (13) and has a circular shoulder (19) which collaborates with a trigger (20) articulated to the body (7') to make it possible to lock/release the pot, possibly with its cartridge, and to completely close off the housing (14) when the pot is removed therefrom.

REMARKS

Prior to examination, entry of the foregoing rewritten claims to delete multiple dependencies and bring the claims into closer compliance with 37 C.F.R. §1.75(c), is respectfully requested in accordance with the provisions of 37 C.F.R. §1.115. Marked up versions of the rewritten claims are enclosed with this Preliminary Amendment, on a separate page, in accordance with the requirements of 37 C.F.R. §1.121(c). An early and favorable consideration of the present application, as amended, is respectfully requested.

Respectfully submitted,



COHEN, GARY M., ESQ.
Reg. No. 28,834
Attorney for Applicant

MARKED UP VERSIONS OF THE REWRITTEN CLAIMS

4. (Amended) The device as claimed in claim [either of claims] 2 [and 3], characterized in that the cartridge (5') is arranged in a removable pot (13).

7. (Amended) The device as claimed in claim [any of claims] 4 [to 6], characterized in that the insulated surface (17) forms a lid on the pot (13) and has a circular shoulder (19) which collaborates with a trigger (20) articulated to the body (7') to make it possible to lock/release the pot, possibly with its cartridge, and to completely close off the housing (14) when the pot is removed therefrom.

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Applicant: BADOZ, Jean-Marie
 Application No.: (not yet known)
 Filed: _____
 For: CANAL FILLING METHOD AND DEVICE
FOR PROVIDING THE FILLING PRODUCT

Attorney's Ref.: MICROM6

STATEMENT CLAIMING SMALL ENTITY STATUS
 (37 C.F.R. §1.9(f) and §1.27(c)) - SMALL BUSINESS CONCERN

I hereby state that I am

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN: Micro Mega, S.A.
 ADDRESS OF SMALL BUSINESS CONCERN: 12 rue du Tunnel
F-25000 Besançon, France

I hereby state that the above-identified small business concern qualifies as a small business concern as defined in 13 C.F.R. Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office. Questions related to size standards for a small business concern may be directed to: Small Business Administration, Size Standards Staff, 409 Third Street, S.W., Washington, D.C. 20416.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☐ the specification filed herewith, with title as listed above.
☐ the application identified above.
☐ the patent identified above.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 C.F.R. §1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d), or a nonprofit organization under 37 C.F.R. §1.9(e).

Each person, concern or organization having any rights in the invention is listed below:

- ☒ no such person, concern or organization exists.
☐ each such person, concern or organization is listed below.

NAME _____
 ADDRESS _____
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

NAME _____
 ADDRESS _____
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

Separate statements are required from each named person, concern or organization having rights to the invention stating their status as small entities. (37 C.F.R. §1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. §1.28(b))

NAME OF PERSON SIGNING: Alain GAGNEUR
 TITLE OF PERSON IF OTHER THAN OWNER: General Manager
 ADDRESS OF PERSON SIGNING: 12 rue du Tunnel
F-25000 Besançon, France

SIGNATURE Alain Gagneur DATE 8/1/02

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11 prt

Express Mail 10/04/93 30S
JC13 Rec'd PCT/PTO 30 JAN 2002

CANAL FILLING METHOD AND DEVICE
FOR PROVIDING THE FILLING PRODUCT

5 The present invention relates to the field of
obturation methods for filling the root canals of
teeth, and more specifically to the phase of actually
filling the canal in the tooth using a filling material
of the Gutta percha or some other type, in the form of
a paste which is introduced into the root canal using a
10 root-canal instrument known as a "condenser" comprising
a screw and arranged on a handpiece.

15 The present invention also relates to a device for
making filling material available and to a container
for containing the filling material.

Procedures for filling root canals are already known in
the prior art.

20 The prior art, for example, discloses a method which
consists in using instruments, the body of which is
made of plastic, and onto which the Gutta percha is
added. To perform the filling, the assembly is
introduced, after heating, into the canal, but the
25 major disadvantage with this method is that the plastic
body remains in the canal and causes considerable
inconvenience if the filling work performed
subsequently needs to be repeated.

30 The prior art also discloses the method which consists
in arranging the filling product on an instrument known
as a "condenser", which is in the form of a root-canal
instrument with a screw, for example a left-hand screw,
arranged on a handpiece so that the filling material
35 can be deposited or "condensed" into the canal by
rotating the instrument in the opposite direction to
the hand of the screw. To coat the instrument with
filling material, such as Gutta percha for example, the
Gutta percha is arranged in a syringe placed in a

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heater and the plunger of the syringe is actuated, when the Gutta percha is ready, so as to deposit it onto the root-canal instrument positioned just at the outlet of the syringe. This method has two disadvantages: on the one hand it does not allow precise control over the amount of Gutta percha applied to the root-canal instrument and, on the other hand, as the amount of Gutta percha contained in the syringe is great, the dental practitioner is strongly tempted to treat several root canals belonging to different patients using the same syringe. In this latter case, there is a risk then that the practitioner will contaminate the second patient or patients with bacteria from the first patient or patients.

The present invention sets out to overcome the drawbacks of the prior art by proposing to present the filling material in the form of at least one dose arranged in a container of the cartridge type, each dose being an individual dose and corresponding roughly to the amount needed to treat and fill just one canal, the root-canal instrument being plunged, rotating or stationary, into one of said cartridges containing a dose of filling material, this making it possible for just the amount of filling material needed to carry out the operation of filling the root canal to be picked up on the walls of the root-canal instrument.

The procedure according to the invention therefore makes it possible to carry out the phase of actually filling the root canal of the tooth using just the amount of filling material needed, and under optimum hygiene conditions.

The device for making the filling material available according to the invention is notable in that it comprises means allowing at least one cartridge containing filling material in the form of a dose roughly corresponding to the amount needed to treat and

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fill one single canal to be brought up to and maintained at the desired temperature.

5 The filling material container of the cartridge type intended to allow the filling of root canals according to the invention is notable in that it contains at least one dose of filling material roughly corresponding to the amount needed to treat and fill one single canal. It can therefore be sold
10 independently or in large quantities, ready for use and disposable after use.

15 The invention will be better understood with the aid of the description given hereinafter of two embodiments of the invention which are given by way of nonlimiting examples with reference to the appended drawings in which:

20 - figure 1 illustrates a perspective view of the device according to the invention according to a first alternative form,

- figure 2 illustrates a phase of coating a root-canal instrument; and

25 - figure 3 illustrates an enlarged sectional view of a cartridge according to the invention, suited to the device of figure 1,

30 - figure 4 is a perspective view of a device according to the invention according to a second alternative form;

35 - figure 5 is a view in longitudinal section of the device in figure 4, on a different scale.

The method according to the invention is a method for the filling of root canals using a filling material (1) of the Gutta percha or some other type, in the form of

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a paste, which is introduced into the root canal using a root-canal instrument (2) known as a "condenser" comprising a screw and arranged on a handpiece (3).

5 The method is characterized in that said filling material (1) is in the form of a number of doses (4) each arranged in a cartridge (5), each dose (4) roughly corresponding to the amount needed to treat and fill one single canal.

10

Thus, to deposit said filling material (1) on the root-canal instrument (2), the root-canal instrument (2) is plunged, rotating or stationary, into one of said cartridges (5) containing a dose (4) of filling
15 material (1) so as to pick up on its walls just the amount of filling material needed for the filling operation, as illustrated in figure 2.

To fill the root canal, all that is then required is
20 for the root-canal instrument (2) to be positioned correctly in the root canal and made to rotate in the opposite direction to the hand of the screw so as to fill the root canal with filling material (1).

25 It should be noted that, by virtue of the method according to the invention, it is not necessary to reverse the direction of rotation of the screw of the instrument in order to load it with filling material.

30 The present invention also relates to a device (6), illustrated in figure 1, for making available filling material (1) of the Gutta percha or some other type, in the form of a paste, which is introduced into the canal of a tooth using a root-canal instrument (2) known as a
35 "condenser" comprising a screw and arranged on a handpiece (3), characterized in that it comprises means allowing at least one cartridge (5) containing filling material (1) in the form of a dose (4) roughly corresponding to the amount needed to treat and fill

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one single canal to be brought up to and maintained at the desired temperature.

The device (6) may, for example, be in the form of a unit (7) comprising a number of recesses (8) in each of which a cartridge (5) may be positioned.

The means for raising at least one cartridge (5) to the desired temperature and maintaining it at that temperature may, for example, consist in the fact that said recess or recesses (8) are formed in a heat-conducting heating body (9) heated using a resistive electric element.

The device (6) may further comprise a switch (10) and an operating indicator (11).

The present invention also relates to a cartridge (5), illustrated in figure 3, intended to allow a root canal to be filled using a filling material (1), characterized in that it contains an individual dose (4) of filling material (1) roughly corresponding to the amount needed to treat and fill one single canal.

Said cartridge (5) is, for example, in the form of a hollow cylinder which has a bottom, and is made of plastic.

As a preference, said cartridges (5) are also equipped with means of sealed closure, of the stopper or thermally bonded seal type, for example, that can be opened just before the filling material is picked up.

Thus, the cartridges (5) of filling material (1) can be offered for sale ready for use and disposable, that is to say ready to be heated in the device (6) and able to be disposed of after the filling material they contain has been used.

Reference is now made to the device of figures 4 and 5.

The device with the general reference (6') essentially comprises a unit (7') equipped with the controls and
5 supplies which are usual for an electrical device (switches, on-off indicator light, timer, etc).

In this alternative form, the cartridge (5') is placed in a pot (13) comprising:

- 10 - a central housing (14) for accommodating the cartridge,
- a thermal mass (15),
- thermally insulated external surfaces - (16) around the body of the pot and (17) over the top
15 surface of said pot.

The thermal mass (15) is accessible towards the bottom of the pot and has a female cavity which accommodates a heating rod (18).

20

The insulated surface (17) forms a lid on the pot (13). It has a circular shoulder (19) which collaborates with a trigger (20) articulated to the body (7') allowing the pot, possibly with its cartridge, to be locked
25 in/released from the device. The function of the trigger is to hold the pot in its housing and, when the latter is removed, to completely close off the housing to prevent dirt from entering the housing, as this would disturb the contact between the heating body and
30 the thermal mass of the pot. Furthermore, it prevents the risk of contact between fingers and the high-temperature heating body.

The thickness of the trigger is such that it can be
35 moved aside simply under the pressure of the pot held by hand by the user.

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The thermal inertia of the mass (15) allows the user to work leaving the device as it is and handling only the pot and the cartridge it contains.

- 5 The pot and its thermal mass may be sterilized, while the doses (cartridges) made be sold sterile.

This device is more flexible to use than the alternative form in figures 1 to 3.

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CLAIMS

1. A method for applying to a root-canal instrument (2), known as a "condenser", comprising a screw and arranged on a handpiece (3), a filling material (1) of the Gutta percha or some other type, in the form of a paste intended to be introduced into the canal of a tooth using said root-canal instrument (2), characterized in that said filling material (1) is in the form of at least one dose (4) each arranged in a cartridge (5), each dose (4) roughly corresponding to the amount needed to treat and fill one single canal, the root-canal instrument (2) being plunged, rotating or stationary, into one of said cartridges (5) containing a dose (4) of filling material (1) so as to pick up on its walls just the amount of filling material needed.
2. A device (6, 6') for making available a filling material (1) of the Gutta percha or some other type, in the form of a paste, which is introduced into the canal of a tooth using a root-canal instrument (2) known as a "condenser" comprising a screw and arranged on a handpiece (3), characterized in that it comprises means allowing at least one cartridge (5, 5') containing filling material (1) in the form of a dose (4) roughly corresponding to the amount needed to treat and fill one single canal to be brought up to and maintained at the desired temperature.
3. The device (6, 6') as claimed in claim 2, characterized in that said means making it possible to bring at least one cartridge (5, 5') up to and maintain it at the desired temperature consists in at least one cavity (8, 14) in which a cartridge (5, 5') can be positioned, said cavity or cavities (8, 14) being formed in a heat-conducting heating body (9, 18) heated by means of a resistive electric element.

4. The device as claimed in either of claims 2 and 3, characterized in that the cartridge (5') is arranged in a removable pot (13).

5 5. The device as claimed in claim 4, characterized in that the pot (13) essentially comprises:

- a central housing (14) for accommodating the cartridge,
- a thermal mass (15),
- 10 - thermally insulated external surfaces - (16) around the body of the pot and (17) over the top surface of said pot.

15 6. The device as claimed in claim 5, characterized in that the thermal mass (15) is accessible towards the bottom of the pot and has a female cavity which accommodates a heating rod (18).

20 7. The device as claimed in any of claims 4 to 6, characterized in that the insulated surface (17) forms a lid on the pot (13) and has a circular shoulder (19) which collaborates with a trigger (20) articulated to the body (7') to make it possible to lock/release the pot, possibly with its cartridge, and to completely
25 close off the housing (14) when the pot is removed therefrom.

8. The device as claimed in claim 7, characterized in that the thickness of the trigger is such that it can
30 be moved aside simply under the pressure of the pot held by hand by the user.

9. A cartridge (5) intended to allow the method as claimed in claim 1 to be implemented, characterized in
35 that it is fitted with means of sealed closure guaranteeing its sterility.

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ABSTRACT

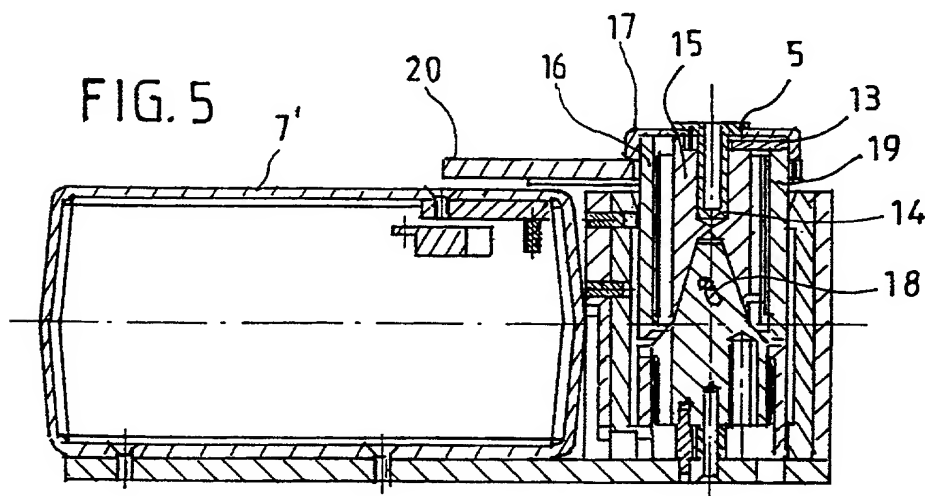
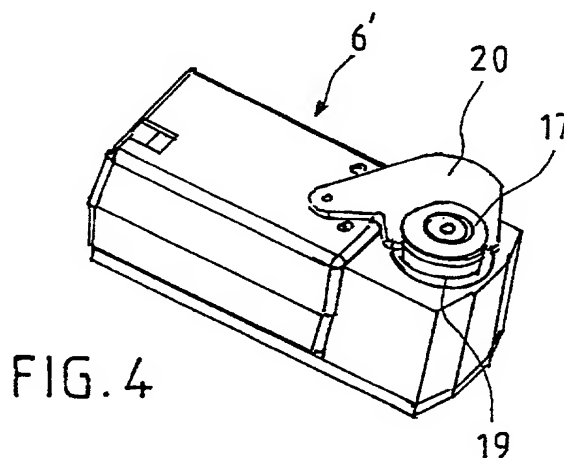
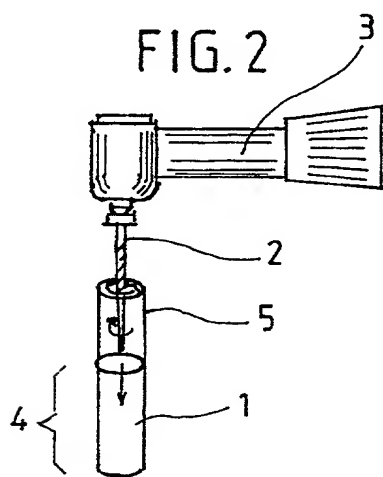
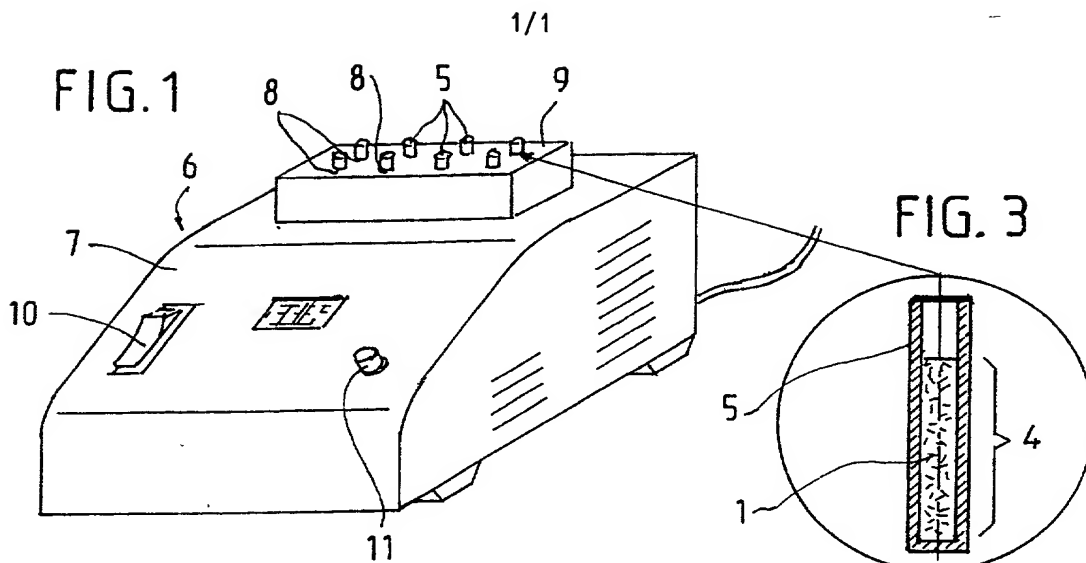
The present invention relates to a method for applying to a root-canal instrument (2), known as a "condenser", comprising a screw and arranged on a handpiece (3), a filling material (1) of the Gutta percha or some other type, in the form of a paste intended to be introduced into the canal of a tooth using said root-canal instrument (2), characterized in that said filling material (1) is in the form of at least one dose (4) each arranged in a cartridge (5), each dose (4) roughly corresponding to the amount needed for treating and filling one single canal, the root-canal instrument (2) being plunged, rotating or stationary, into one of said cartridges (5) containing a dose (4) of filling material (1) so as to pick up on its walls just the amount of filling material needed.

The invention also relates to a device (6, 6') for making available a filling material (1) of the Gutta percha or some other type, in the form of a paste, which is introduced into the canal of a tooth using a root-canal instrument (2) known as a "condenser" comprising a screw and arranged on a handpiece (3), characterized in that it comprises means allowing at least one cartridge (5, 5') containing filling material (1) in the form of a dose (4) roughly corresponding to the amount needed to treat and fill one single canal to be brought up to and maintained at the desired temperature.

The invention also relates to a cartridge intended for implementing the method according to the invention.

Figure for the abstract: figure 4

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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY | Attorney's Reference: MICROM6
(Includes Reference to PCT International Applications)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: CANAL FILLING METHOD AND DEVICE FOR PROVIDING THE FILLING PRODUCT, the specification of which (check only one item below):

- ☐ is attached hereto.
- ☐ was filed as United States Patent
Application No. _____
on _____
and was amended
on _____ (if applicable).
- ☒ was filed as PCT International Application
Number PCT/FR00/02206
on 1 August 2000
and was amended under PCT Article 19
on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 35 U.S.C. 365(b) of any foreign application(s) for patent or inventor's certificate, or under 35 U.S.C. 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §119
France	99/10217	4 August 1999	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or under 35 U.S.C. 365(c) of any PCT international application designating the United States of America, that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR
BENEFIT UNDER 35 U.S.C. §120:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

GARY M. COHEN, ESQ. - Reg. No. 28,834

Send Correspondence to: Gary M. Cohen, Esq. <u>Strafford Building Number Three</u> <u>125 Strafford Avenue, Suite 300</u> <u>Wayne, PA 19102</u>	Direct Telephone Calls to: (name and telephone number) Gary M. Cohen, Esq. (610) 975-4430
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Full Name of Inventor 2	Family Name	First Given Name	Second Given Name
Residence & Citizenship	City	State or Foreign Country	Country of Citizenship
Post Office Address	Post Office Address	City	State/Zip Code/Country

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 <u>Jean-Marie Badoz</u>	Signature of Inventor 2
Date <u>8/1/02</u>	Date